Problem Statement-4

```
package arrays;
public class Matrix {
      public static void main(String[] args) {
            // TODO Auto-generated method stub
            int r1=2,c1=3;
            int r2=3,c2=2;
            int[][] fm= {{3,-2,5},{3,0,4}};
            int[][] sm= {{2,3},{-9,0},{0,4}};
            int[][] prod=mulmatrix(fm,sm,r1,c1,c2);
            display(prod);
      public static void display(int[][] prod) {
            // TODO Auto-generated method stub
            System.out.println("Product is:");
            for(int[] row:prod) {
                  for(int col:row) {
                         System.out.println(col+" ");
                  System.out.println();
      public static int[][] mulmatrix(int[][] fm, int[][] sm, int r1, int c1,
int c2) {
            // TODO Auto-generated method stub
            int [][] prod= new int[r1][c2];
            for(int i=0;i<r1;i++) {</pre>
                  for(int j=0;j<c2;j++) {</pre>
                         for(int k=0;k<c1;k++) {
                               prod[i][j]+=fm[i][k]*sm[k][j];
                         }
                  }
            return prod;
      }
}
```

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                                                                                                                                                                            Doublell.java
         🗓 Arrayrotation.java 🗓 Orderstatics.java 🗓 Rangeg.java
                1 package arrays;
                3 public class Matrix {
               4
               5⊝
                                     public static void main(String[] args) {
         a 6
                                                   // TODO Auto-generated method stub
               7
                                                    int r1=2,c1=3;
                                                    int r2=3,c2=2;
               9
                                                    int[][] fm= {{3,-2,5},{3,0,4}};
            10
                                                    int[][] sm= {{2,3},{-9,0},{0,4}};
            11
                                                    int[][] prod=mulmatrix(fm, sm, r1, c1, c2);
            12
                                                    display(prod);
            13
            14
                                     }
            15
           16⊝
                                     public static void display(int[][] prod) {
         217
                                                   // TODO Auto-generated method stub
           18
                                                    System.out.println("Product is:");
            19
                                                    for(int[] row:prod) {
            20
                                                                   for(int col:row) {
            21
                                                                                 System.out.println(col+" ");
            22
            23
24
                                                                   System.out.println();
                                                    }
            25
            26
                                       }
          🖳 Problems 🍳 Javadoc 🖳 Declaration 📮 Console 🗵
         <terminated> Matrix [Java Application] C:\Users\Swaroop\.p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x8
         Product is:
         24
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```